Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Yelahanka

me of Work: Developments of roads and drains at Srinivasapura in Ward No.05 (Jakkur) Byatarayanapura Sub division

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
vil Work								
SRR 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary il excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after eaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1,KPWD SR 18-19) 8km lead= 57+2.0x1.28x8 = 77.48								
Drain								
nivaspura								
rishna condiments Road	2	222.00	1.20	1.10	586.08			
Rd frm Krishna condi Rd	2	192.00	1.20	1.00	460.80			
ande Road	2	275.00	1.20	1.00	660.00			
oad-1, 2nd Crs	2	167.00	1.20	1.05	420.84			
ulvert	5	6.00	1.80	1.00	54.00			
					2181.72	**Cum**	**215.28**	**469680.68**
Basic Rate	**130.00**							
AW6%	**7.80**							
Sub Total	**137.80**							
Loading, Unloading& Lead	**77.48**							
Total	**215.28**							
SRR M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with rushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration ncluding curing for 14 days including cost of all materials, labour, HOM curing, form works, caffolding and centering complete as per specifications. (P.No-222,I No-27.18,KPWD SR 2018-19)								
Drain								
nivaspura								
rishna condiments Road	2	222.00	1.20	0.15	79.92			
Rd frm Krishna condi Rd	2	192.00	1.20	0.15	69.12			
ande Road	2	275.00	1.20	0.15	99.00			
oad-1, 2nd Crs	2	167.00	1.20	0.15	60.12			
ulvert	5	6.00	1.80	0.15	8.10			
					316.26	**Cum**	**5421.90**	**1714730.09**
Basic Rate	**5115.00**							
AW6%	**306.90**							
Total	**5421.90**							
SRR 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, ending, hooking, placing in position, lapping and / or welding wherever required, tying with binding ire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks nd wastage shall not be measured and paid) cost of materials, labour, HOM complete as per pecifications. Specificatio (I No-28.8.2,P No-229,KPWD SR 2018-19)								
teel for drain	1	590.64	70.00		41344.80			
					41344.80			
					41.34	**Tn**	**72326.98**	**2990344.52**
Basic Rate	**68233.00**							
AW6%	**4093.98**							
Total	**72326.98**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR								
CC **Drain Raft**								
Srinivaspura								
Krishna condiments Road	2	222.00	1.00	0.15	66.60			
Crs Rd frm Krishna condi Rd	2	192.00	1.00	0.15	57.60			
Bande Road	2	275.00	1.00	0.15	82.50			
Road-1, 2nd Crs	2	167.00	1.00	0.15	50.10			
CC **Drain Wall**								
Srinivaspura								
Krishna condiments Road	4	222.00	0.15	0.65	86.58			
Crs Rd frm Krishna condi Rd	4	192.00	0.15	0.65	74.88			
Bande Road	4	275.00	0.15	0.65	107.25			
Road-1, 2nd Crs	4	167.00	0.15	0.65	65.13			
					590.64	**Cum**	**7070.20**	**4175942.93**
Basic Rate	**6670.00**							
AW6%	**400.20**							
Total	**7070.20**							
KSRB 5.2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 cement mortar 1:6 KBS 5.1.13 (I No-5.6,P No-25,KPWD SR 2018-19)								
Culvert								
	10	6.00	0.45	0.75	20.25			
					20.25	**Cum**	**4871.76**	**98,653.14**
Basic Rate	**4596.00**							
AW6%	**275.76**							
Total	**4871.76**							
KSRB 4-1.6 ; Providing and laying in **position plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.6,KPWD SR 2018-19)								
Culvert								
Coping	10	6.00	0.45	0.10	2.70			
Bed Concrete	5	6.00	0.60	0.15	2.70			
For **Kerb Stone**								
Srinivaspura								
Krishna condiments Road	2	222.00	0.20	0.10	8.88			
Crs Rd frm Krishna condi Rd	2	192.00	0.20	0.10	7.68			
Bande Road	2	275.00	0.20	0.10	11.00			
Road-1, 2nd Crs	2	167.00	0.20	0.10	6.68			
					39.64	**Cum**	**5747.32**	**227823.76**
Basic Rate	**5422.00**							
AW6%	**325.32**							
Total	**5747.32**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No-27,I No-5.30,KPWD SR 2018-19)								
For **Kerb Stone**								
Srinivaspura								
Krishna condiments Road	2	222.00			444.00			
Crs Rd frm Krishna condi Rd	2	192.00			384.00			
Bande Road	2	275.00			550.00			
Road-1, 2nd Crs	2	167.00			334.00			
					1712.00			
					3805.00	**Nos**	**432.48**	**1645586.40**
Basic Rate	**408.00**							
AW6%	**24.48**							
Total	**432.48**							
KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (P.No-180,I No-24.1,KPWD SR 2018-19)								
For **Kerb Stone**								
Srinivaspura								
Krishna condiments Road	2	222.00		0.35	155.40			
Crs Rd frm Krishna condi Rd	2	192.00		0.35	134.40			
Bande Road	2	275.00		0.35	192.50			
Road-1, 2nd Crs	2	167.00		0.35	116.90			
					599.20	**Sqm**	**84.80**	**50,812.16**
Basic Rate	**80.00**							
AW6%	**4.80**							
Total	**84.80**							
Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
CC **Drain Raft**								
Srinivaspura								
Krishna condiments Road	2	222.00	0.90		399.60			
Crs Rd frm Krishna condi Rd	2	192.00	0.90		345.60			
Bande Road	2	275.00	0.90		495.00			
Road-1, 2nd Crs	2	167.00	0.90		300.60			
					1540.80	**Sqm**	**2337.00**	**3600849.60**
Data Rate	**2337.00**							
Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge ,KPWD SR 2018-19								
Culvert Top Slab	5	6.00	1.50		45.00			
Damaged Slab	3	0.60	1.50		2.70			
					47.70	**Sqm**	**5418.00**	**258438.60**
Data Rate	**5418.00**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commissoning incuding loading and un loading at both destinations and cuts of pipes wherever neccessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approvel type with all labour with all lead and lift incuding encasing the pipe alround to adepth of not less then 15cms with soft gravel or selected earth availble from the excavation etc.., completed and giving necessary hydralic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No.133 I No 1.4 BWSSB SR 2018-19) **63mm outer dia, 6kg/sqcm & class 5**								
	1	250.00			**250.00**	**Mtr**	**122.00**	**30,500.00**
KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
Srinivaspura								
Road-1, 2nd Crs	1	167.00	6.00	0.30	300.60			
					300.60	**Cum**	**63.94**	**19,220.36**
Basic Rate	**41.00**							
AW6%	**2.46**							
Sub Total	**43.46**							
Loading, Unloading& Lead	**20.48**							
Total	**63.94**							
KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147,KPWD SR 2018-19)								
Srinivaspura								
Road-1, 2nd Crs	1	167.00	6.00		1002.00			
					1002.00	**Sqm**	**6.36**	**6,372.72**
Basic Rate	**6.00**							
AW6%	**0.36**							
Total	**6.36**							
Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.(I No-20.5,P No-153,KPWD SR 2018-19)								
Srinivaspura								
Pipeline Cut portion								
Road-1, 2nd Crs	1	167.00	2.00	0.15	50.10			
					50.10	**Cum**	**1994.92**	**99,945.49**
Basic Rate	**1882.00**							
AW 6%	**112.92**							
Total	**1994.92**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
SRRB M600-1.Providing and **Constructing dry lean cement concrete** mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (P.No-174,I No-21.1.2,KPWD SR 2018-19)								
Srinivaspura								
Road-1, 2nd Crs	1	167.00	6.00	0.15	150.30			
					150.30	**Cum**	**3884.90**	**583900.47**
Basic Rate	**3665.00**							
AW 6%	**219.90**							
Total	**3884.90**							
Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, Thickness as per design, over a prepared sub base with 53 grade cement or any other type as per clause 1501.2.2 M30 (Grade) coarse and fine aggregate conforming to IS: 383 maximum size of coarse aggregate not exceeding 25mm , mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher as per approved mix design laid in approved fixed of 125 micron thick polythene film, wedges steel plates including levelling the form work as per drawing) Spreading the concrete with shovels rackers compacted using needle screed and plate vibrator and finished in a continuous operation including provision of contruction joints primer joint sealant curring of concrete slabs for 14 days and wateri finishing to lines and grade as per drawing and techincal specification clause 1501 with all lead lifts loading & unloading charges cost and conveyance of all materials (P.No-176,I No-22.6.1,KPWD SR 2018-19)								
Srinivaspura								
Road-1, 2nd Crs	1	167.00	6.00	0.15	150.30			
					150.30	**Cum**	**5210.96**	**783207.29**
Basic Rate	**4916.00**							
AW 6%	**294.96**							
Total	**5210.96**							
							Total Construction Cost	**16756008.23**
							Towards GST 12%	**2010720.99**
							Tender Premium	**837800.41**
							Towards DPR & PMC Cost	**395000.00**
							Sub Total	**19999529.62**
							Utility Shifting,Miscellaneous and Rounding off	**470.38**
							GRAND TOTAL	**20000000.00**

Technical Sanction
Accorded For Rs 200 Lakhs only
Head of A/C ₹3801
CER NO : 70 Dt: 10/02/2020
EA CE (WK)

Administrative Approval
Accorded For Rs. 200 Lakhs only
Head of A/C ₹3801
CER NO : 67 Dt: 05/12/2020

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, Data Rates and Issue rates 01-07-2020

Assistant Engineer	Asst. Executive Engineer,	Executive Engineer,
Ward No-05	Project Division Yelahanka	Project Division Yelahanka
BBMP Bangalore	BBMP Bangalore	BBMP Bangalore